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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/196,658	11/19/1998	ALAIN RABAEUS	IMEC84.001AU	9395

20995 7590 07/12/2002

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EXAMINER

CORRIELUS, JEAN B

ART UNIT	PAPER NUMBER
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2631

DATE MAILED: 07/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/196,658

Applicant(s)

RABAEIJS ET AL.

Examiner

Jean B Corrielus

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <sup>3</sup>/~~1~~ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 May 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 1-7 and 11-15 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6-10 and 16-21 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 November 1998 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 689.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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## **DETAILED ACTION**

### ***Election/Restriction***

1. Claims 1-7, 11-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in Paper No. 11.

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the taps included in the delay line, the first demodulator for demodulating one of the L1 and L2 signals with a non-delayed version of the known code, a second demodulator selectably connectable to any one of the taps of the delay line for the modulating the other of L1 and L2 signals with a delay version of the replica of the known code, a switch for selectably switching the other of the received L1 and L2 signals and the one L1 and L2 signals, as recited in claims 8 and 16, the first demodulator for demodulating one of the L1 and L2 signals, a second demodulator selectably connectable to any one of the taps of the delay line for the modulating the other of L1 and L2 signals with a delay version of the replica of the known code, a first integrator for integrating the demodulated signal, a second integrator for integrating the second demodulated signal, a correlator for correlating a result of the integration steps, a phase adjuster for adjusting the phases of the locally generated code, a

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comparator a combiner, a first and second accumulator as recited in claims 9 and 20, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### *Specification*

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). The specification needs to be amended to provide support for the limitations of: the **first demodulator** for demodulating **one of the L1 and L2 signals with a non-delayed version of the known code**, a **second demodulator selectably connectable** to any one of the **taps of the delay line** for the demodulating the **other of L1 and L2 signals with a delay version of the replica of the known code**, a **switch for selectably switching the other of the received L1 and L2 signals and the one L1 and L2 signals**, as recited in claims 8 and 16, the **first demodulator for demodulating one of the L1 and L2 signals with a non-delayed version of the known code**, a **second demodulator selectably connectable to any one of the taps of the delay line for the demodulating the other of L1 and L2 signals with a delay version of the replica of the known code**, a **first integrator for integrating the first demodulated signal**, a **second integrator for integrating the second demodulated signal**, a **correlator for correlating a result**

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of the **integration steps**, a **phase adjuster** for adjusting the phases of the locally generated code, a **comparator** for comparing the absolute value of the integrated signals, a **combiner** for combining the values of the integrated signals, a first and second accumulators for accumulating output of the combiner for each of the L1 and L2 signals, as recited in claims 9 and 20.

#### ***Claim Objections***

4. Claim 8, line 15, "first" should be "the second demodulator", line 16, "second" should be first". Claim 16 line 13, "other" should be "one" and line 14, "one" should be "other".

Appropriate correction is required.

#### ***Allowable Subject Matter***

5. Claims 8-10 and 16-21 are allowed. Note that claims 8 and 16 must be amended in such a way to overcome the objection sets forth above.

#### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kohli et al, US patent No. 6,400,753, discloses correlators elements 74 summer 84 delay element 78 code generator 76.

7. **Any response to this action should be mailed to:**

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(for informal or draft communications, please label "PROPOSED" or  
"DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA., Sixth Floor (Receptionist).

8. Any inquiry concerning this communication or earlier communications from the  
examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023.

The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's  
supervisor, Chi Pham, can be reached on (703) 305-4378.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

 7-9-02  
Jean B. Corrielus

Primary Examiner

TC-2600